

air-incident  
 $NA = \sin \theta$   
resolving power:  $\lambda / (2NA)$

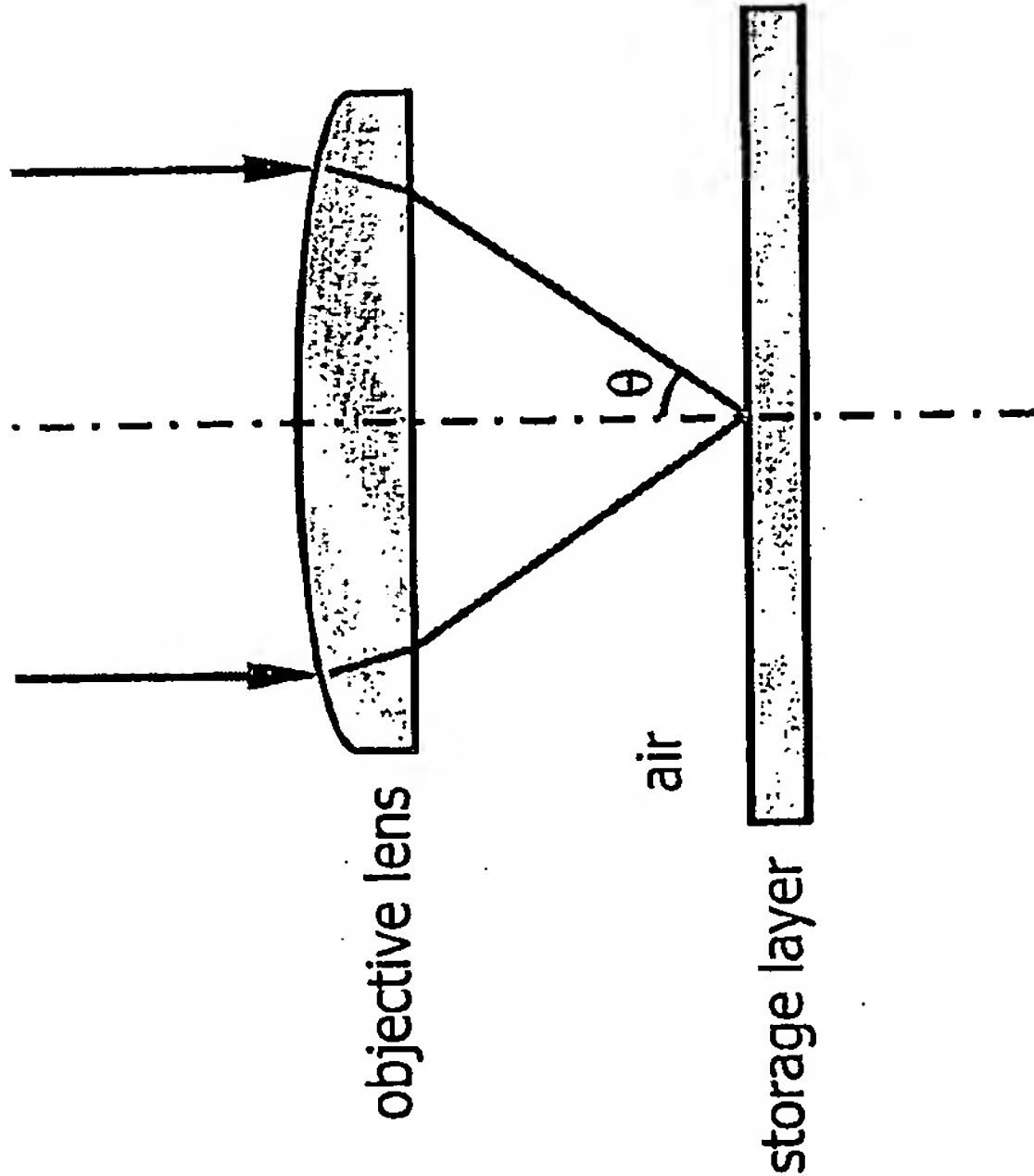


FIG.1A

with cover layer:  $\lambda' = \lambda / n_0$   
 $NA' = \sin \theta' = \sin \theta / n_0 = NA / n_0$   
resolving power:  $\lambda' / (2NA') = \lambda / (2NA)$

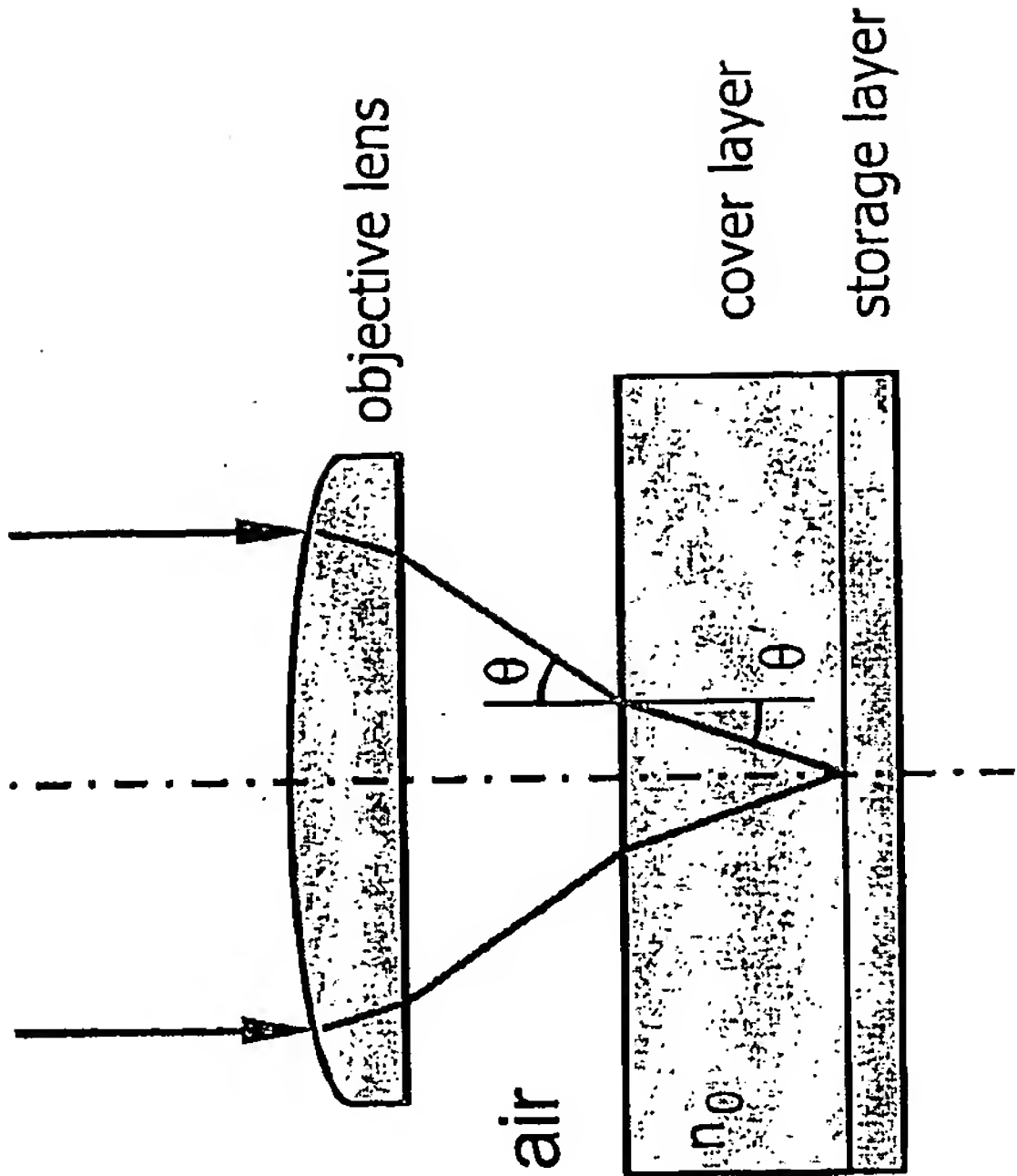


FIG.1B

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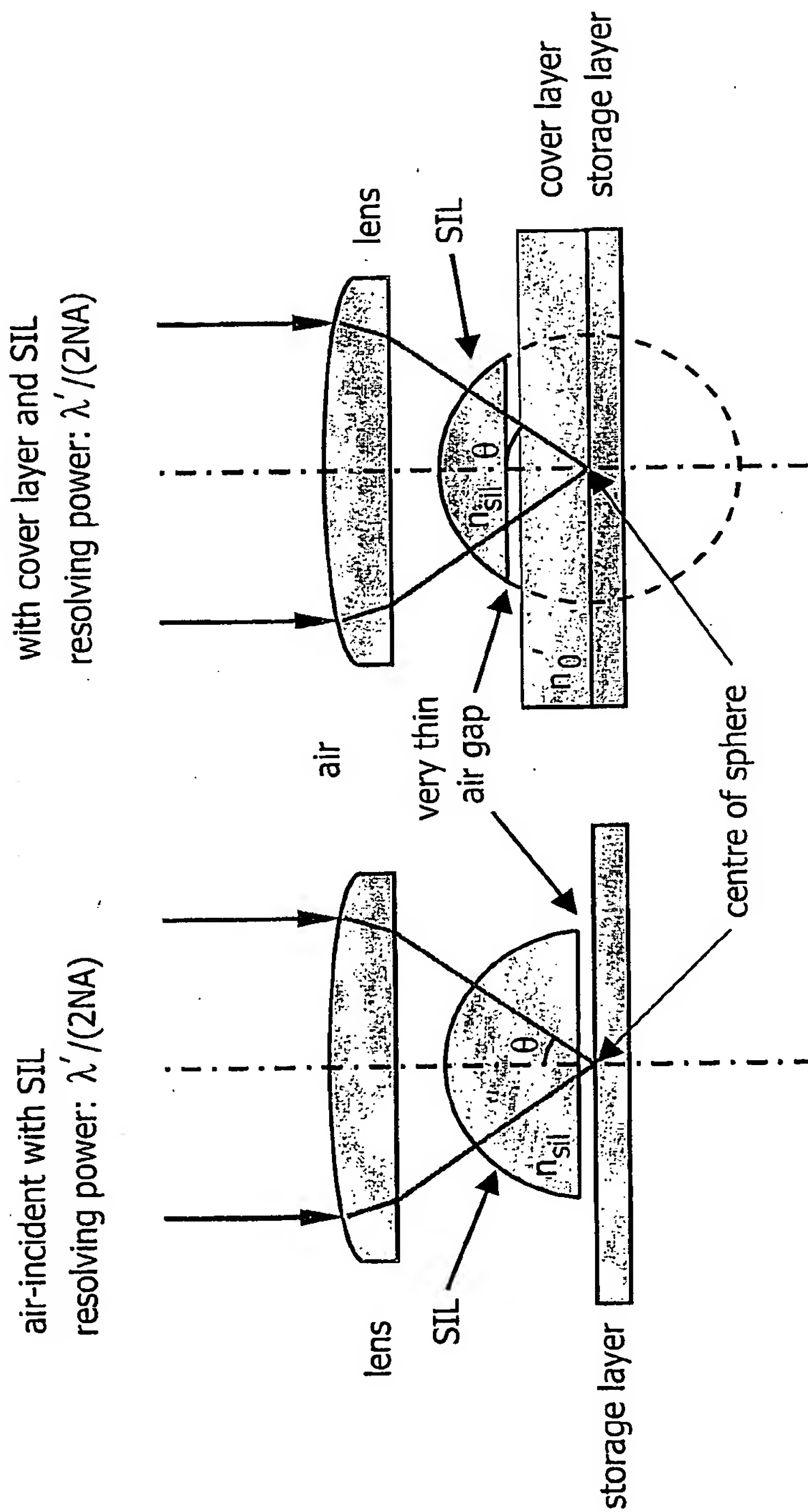


FIG. 2B

FIG. 2A

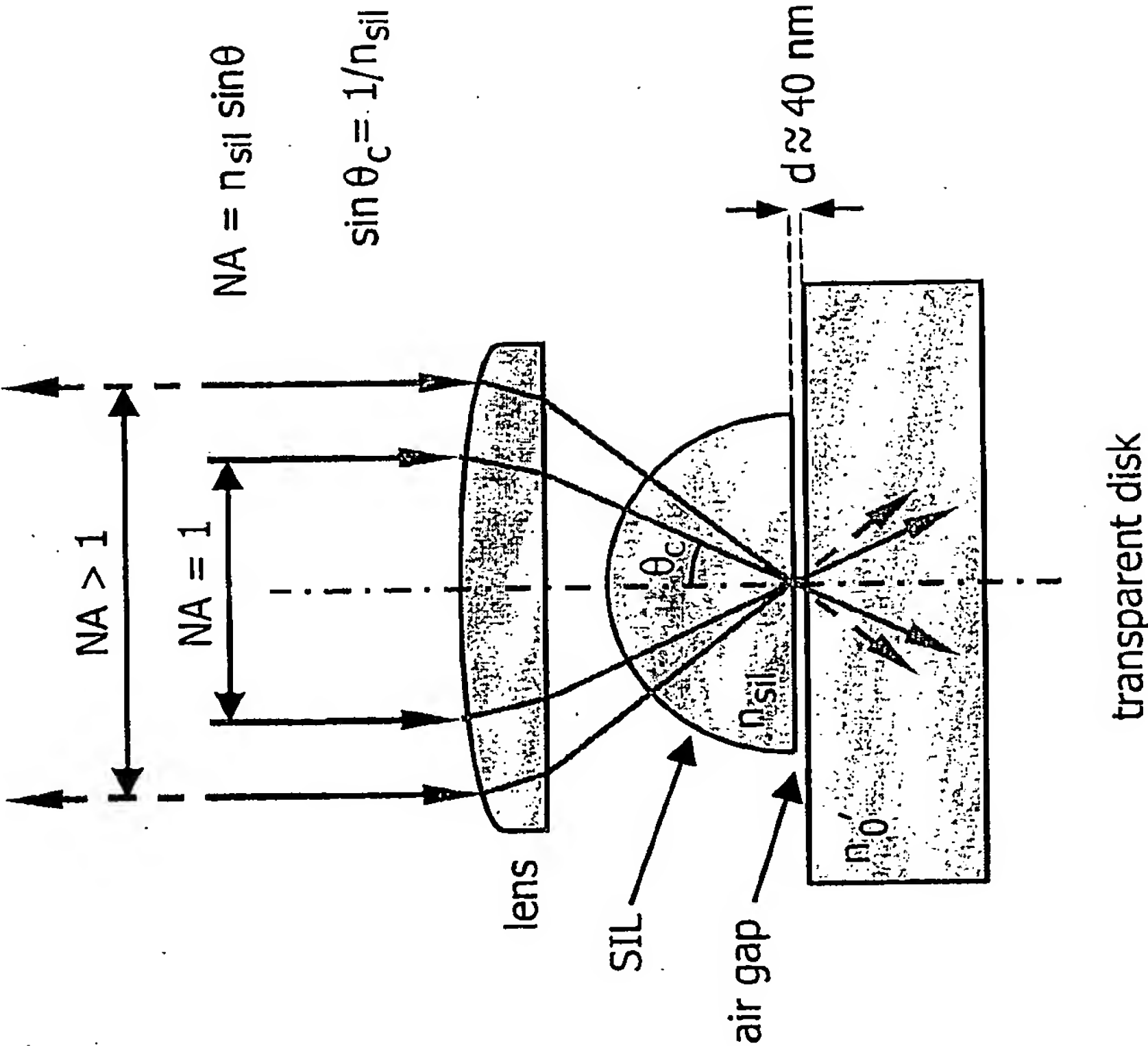


FIG.3

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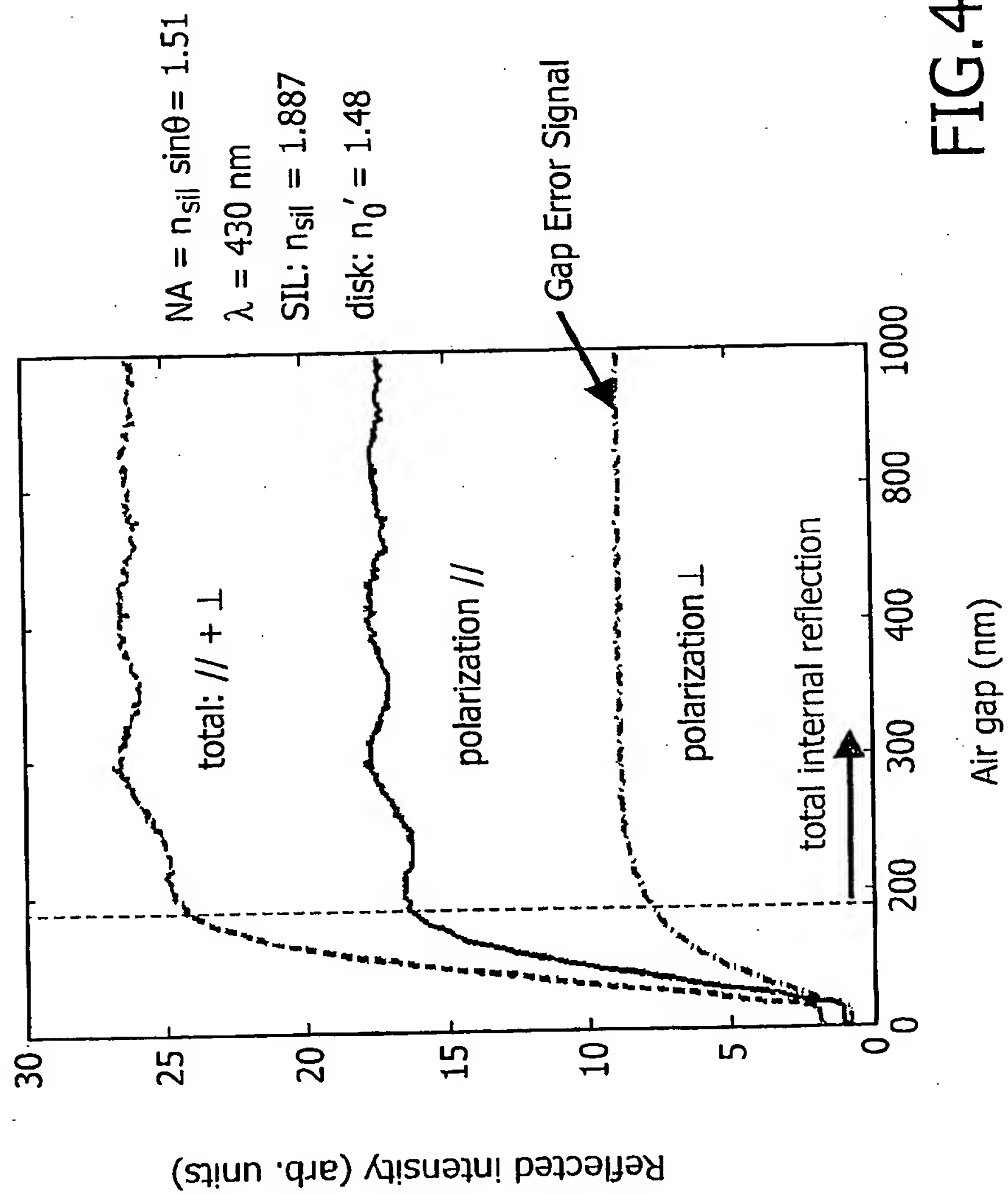


FIG.4

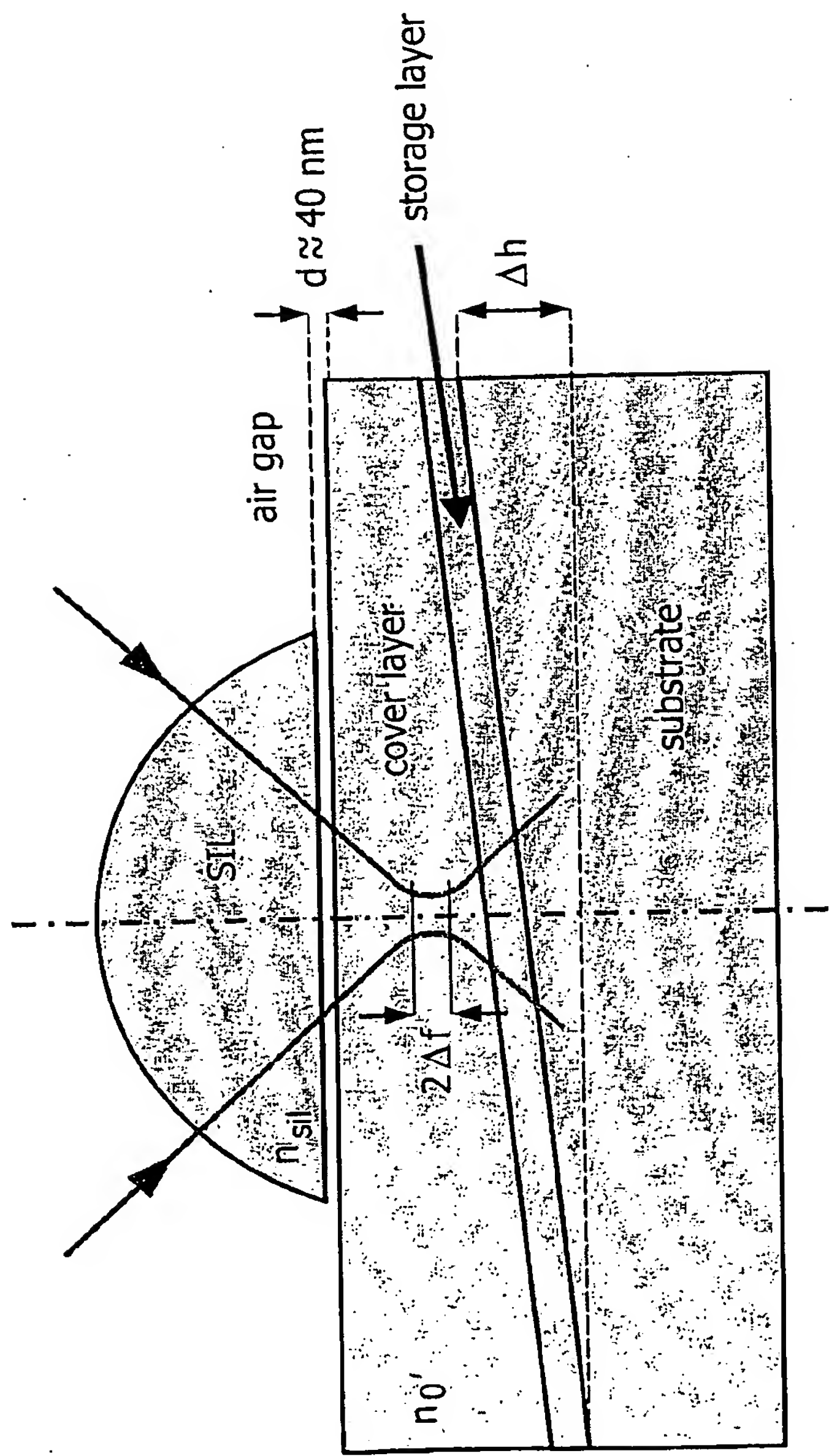


FIG.5

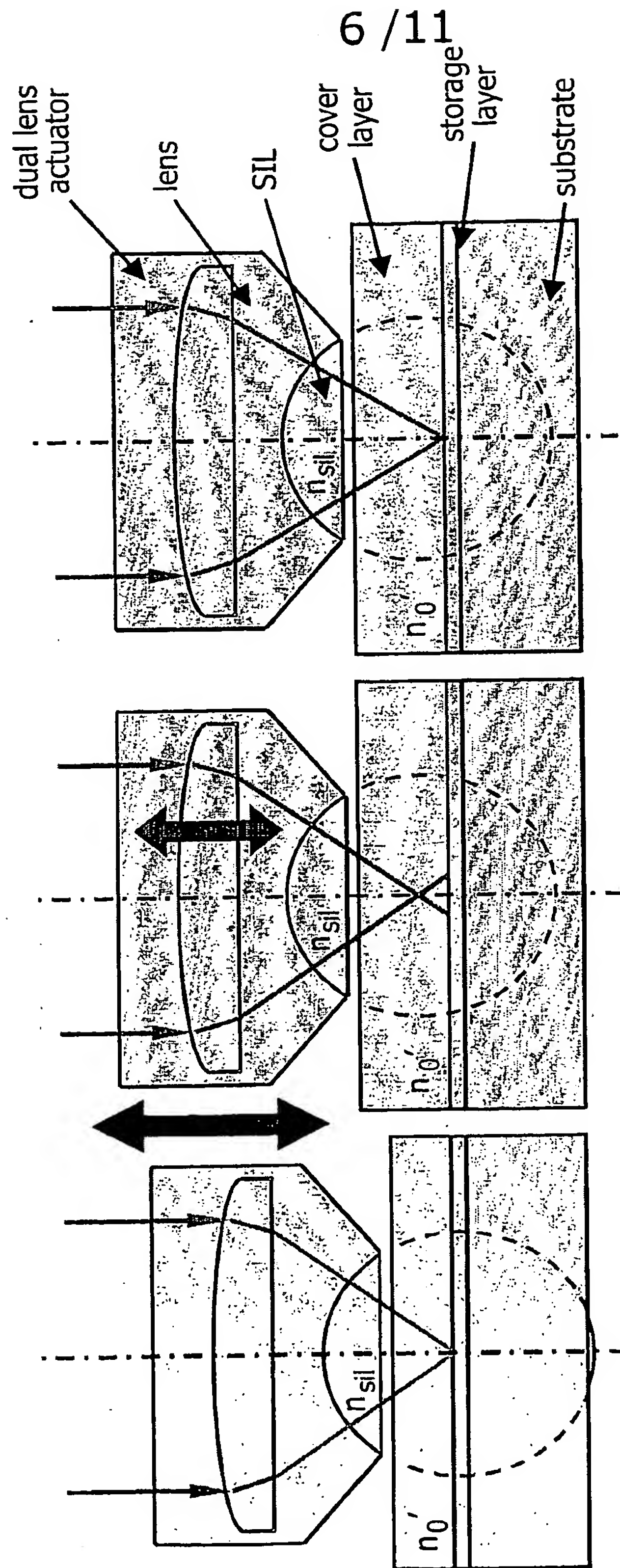


FIG. 6C

**FIG. 6B**

**FIG. 6A**

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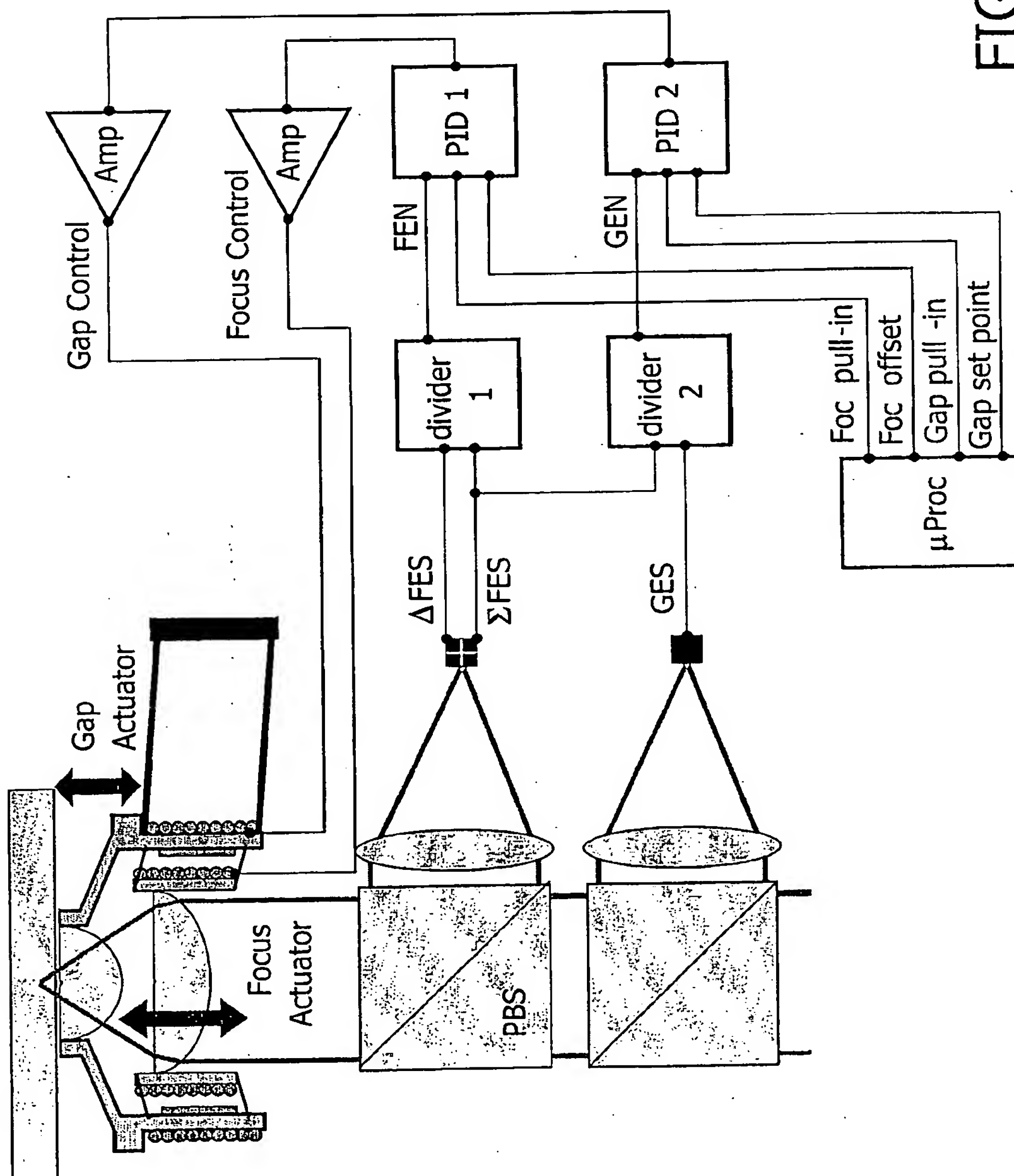


FIG. 7

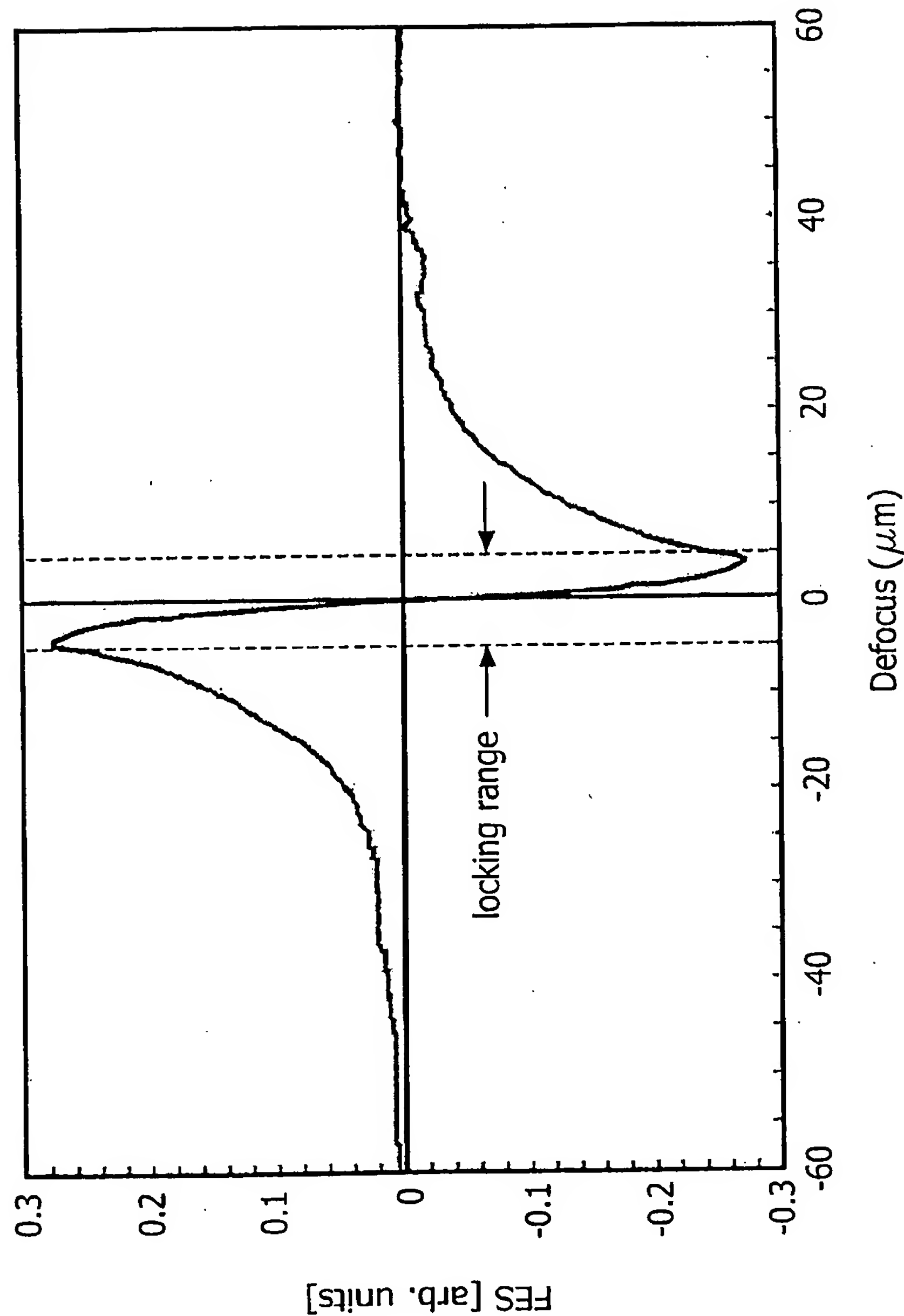


FIG.8



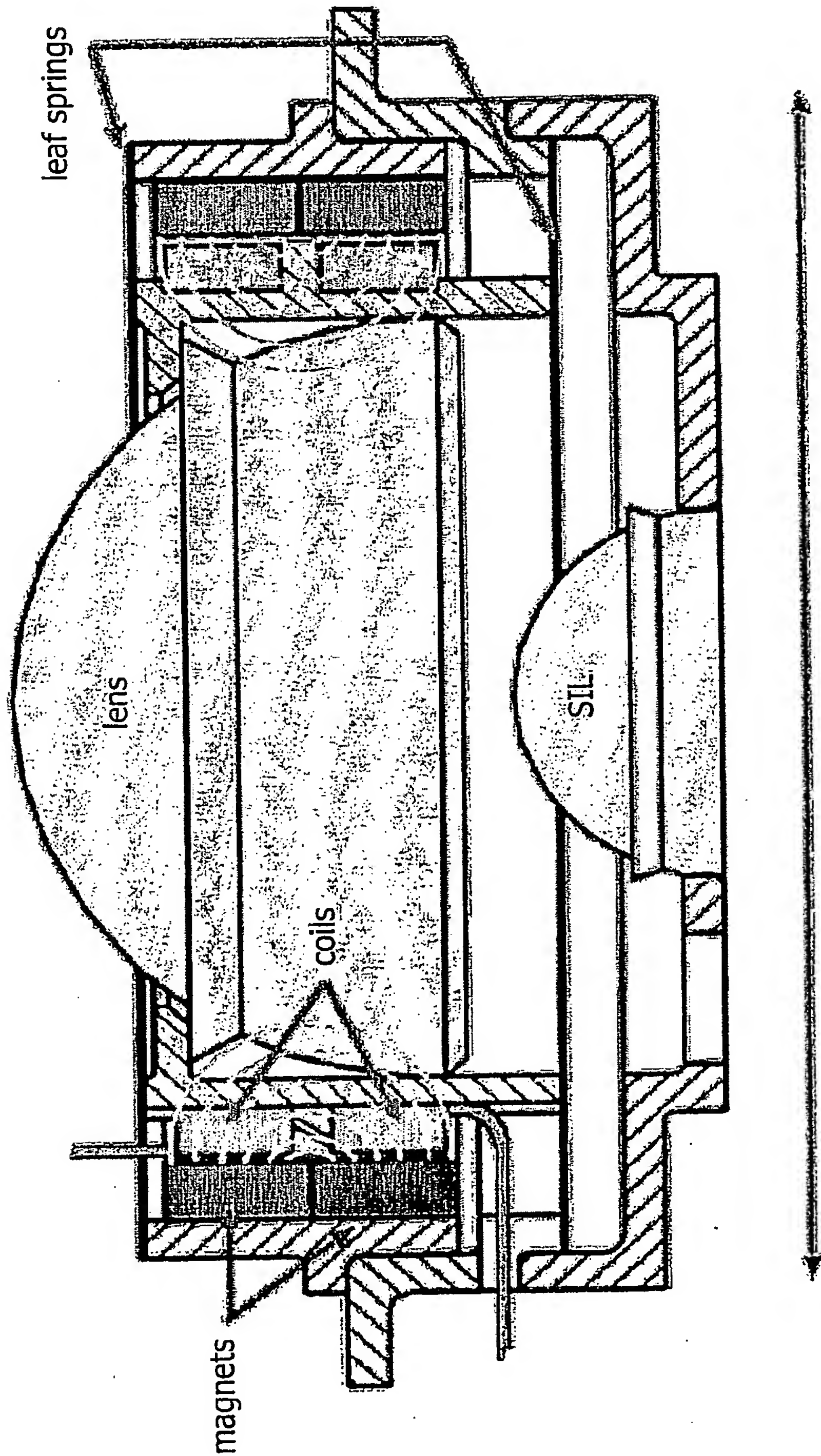
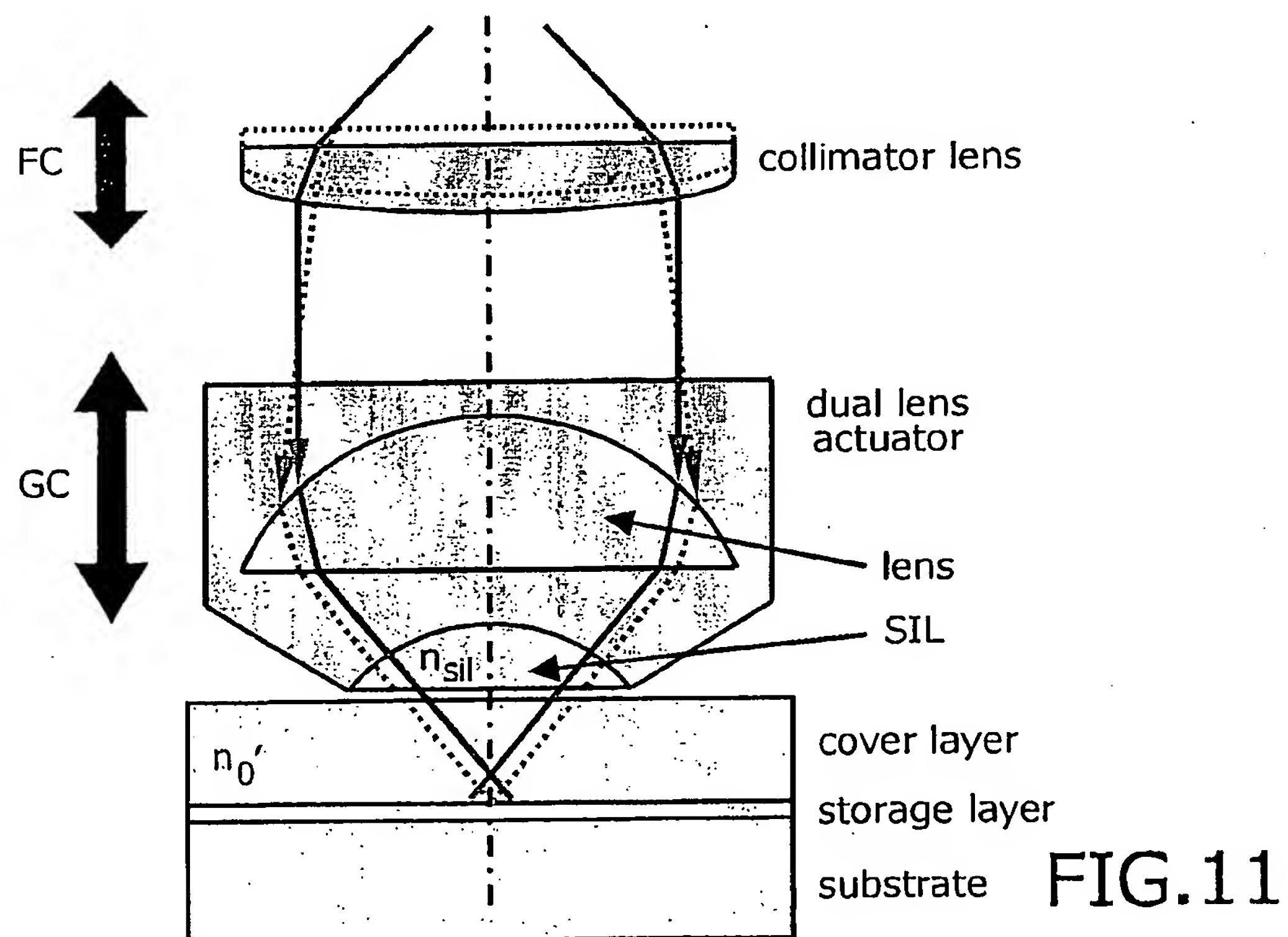
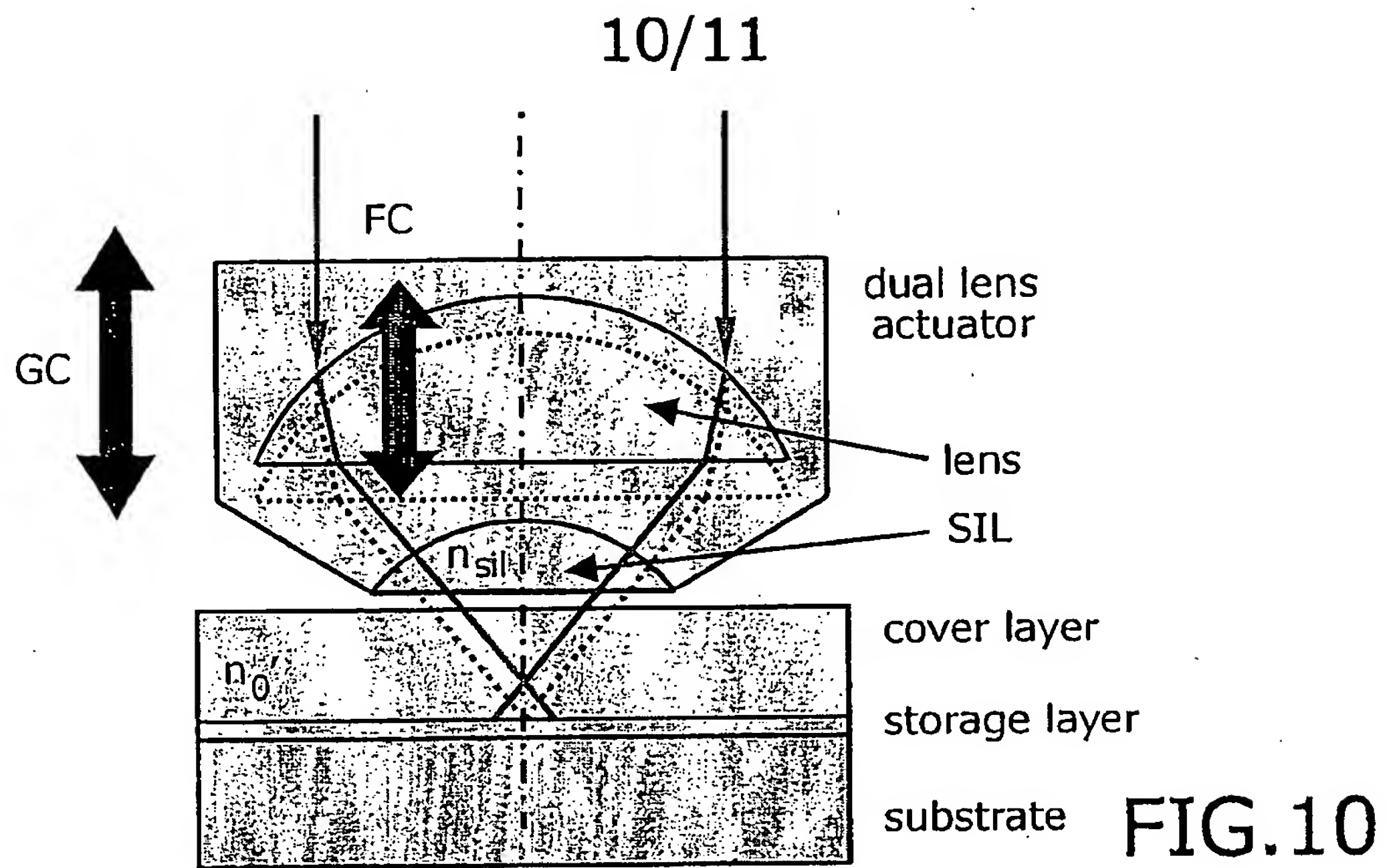


FIG.9



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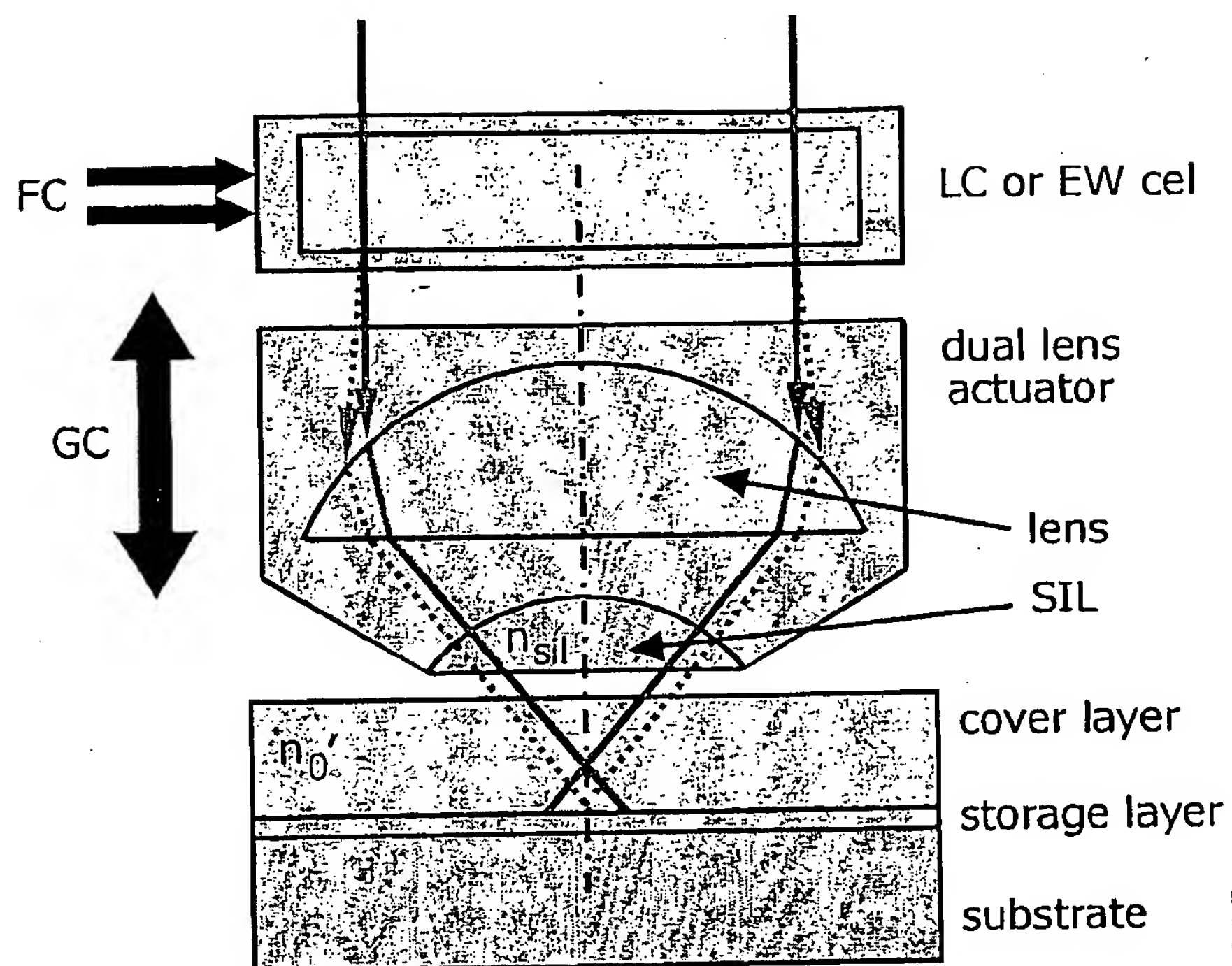


FIG.12

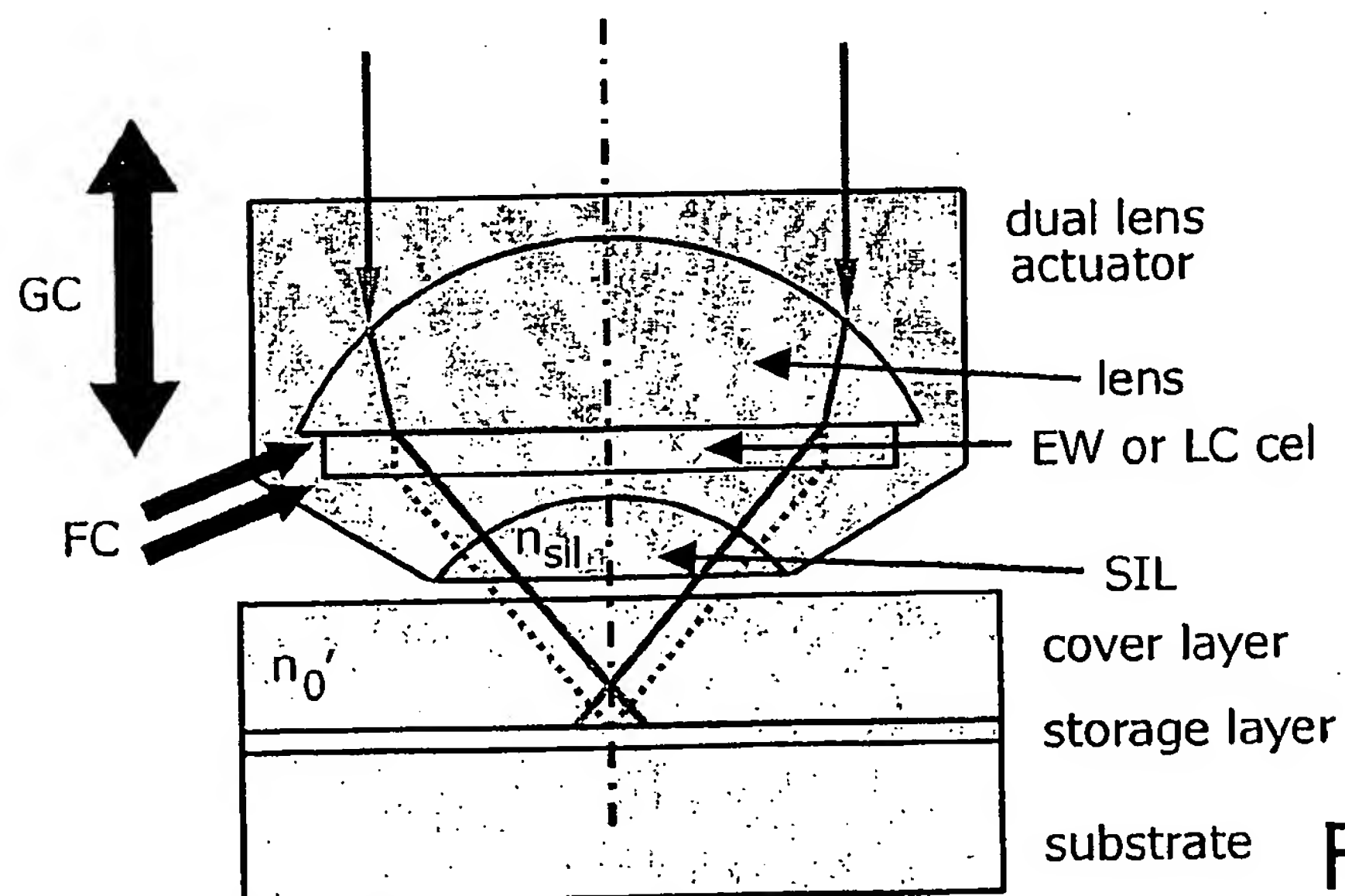


FIG.13